

Cloth Face Masks Containing Silver: Evaluating the Status

Melissa S. Blevens¹, Homero F. Pastrana², Hannah C. Mazzotta³, Candace Su-Jung

Tsai^{1,4}*

¹ Environmental Health, Department of Environmental and Radiological Health

Sciences,

Colorado State University, 1681 Campus Delivery, Fort Collins, CO 80523, USA

² Facultad de Medicina, Grupo de Investigación en Ciencias Biomédicas, Universidad

Antonio Nariño, Bogotá D.C., Colombia, 110231

³ Colorado School of Public Health, Colorado State University, 1612 Campus Delivery,

Fort Collins, CO 80523, USA

⁴ Department of Environmental Health Sciences, Fielding School of Public Health,

University of California, Los Angeles, 650 Charles E Young Dr S, Los Angeles, CA

90095, USA

* Corresponding author: Dr. Candace S.J. Tsai

Supporting Information

Table of Contents

Figure S1.	3
Figure S2.	5

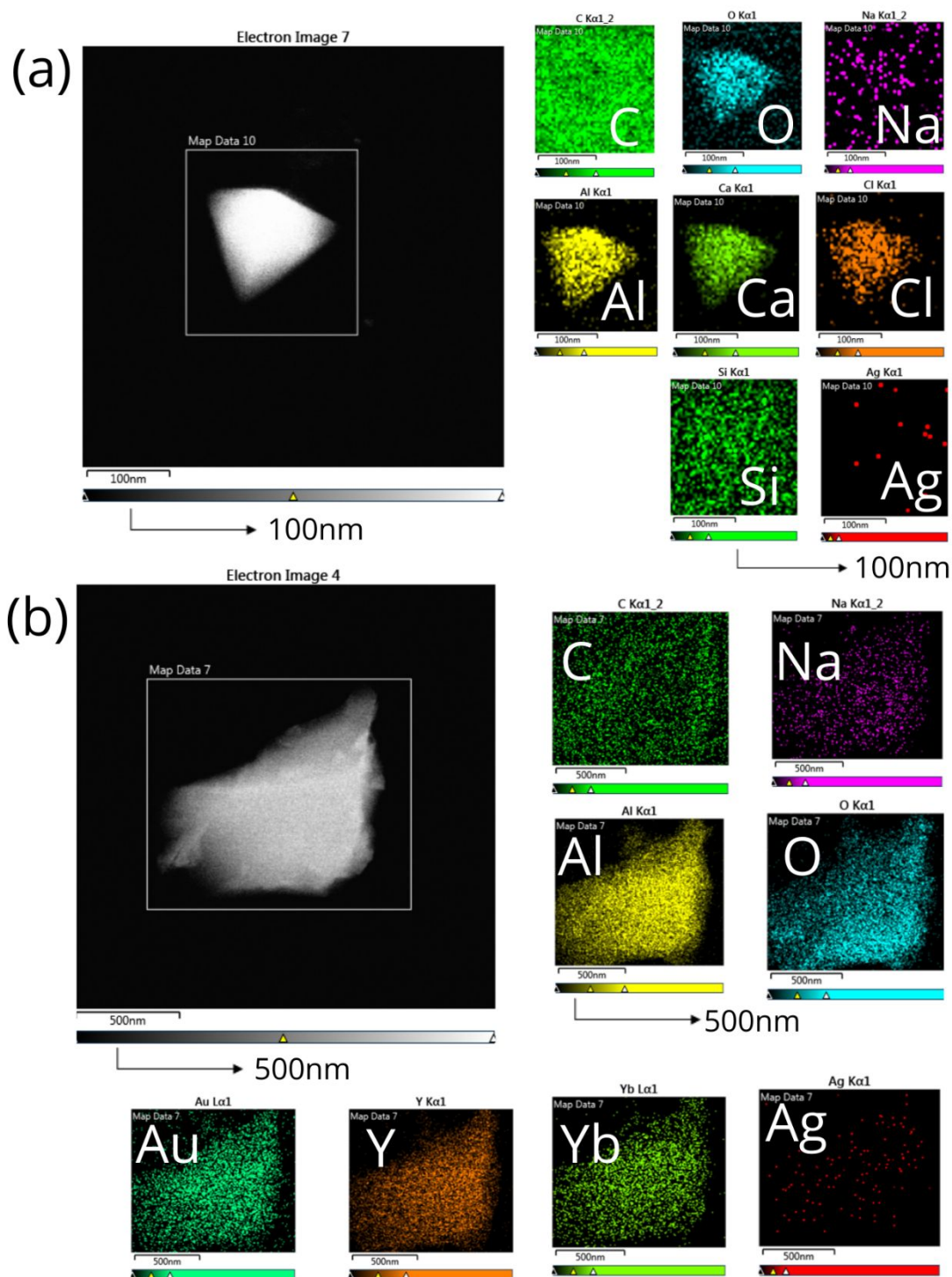


Figure S1. Microscopy analysis of thermal gravimetric analysis (TGA) ash of the Viral Guard Pro (Mask A) face mask. (a) TEM-EDS of particle used for analysis. The scale bar is 100 nm. Oxygen (O), Carbon (C), Silver (Ag), Aluminum (Al), Calcium (Ca), Chlorine (Cl), Sodium

(Na), Silica (Si), were analyzed with scale bars of 100 nm. Gold (Au) was excluded for analysis because of the use of a gold grid. No silver was detected, and carbon, silica, and sodium were found in the background. (b) TEM-EDS of particle used for analysis. The scale bar is 500 nm. Oxygen (O), Carbon (C), Silver (Ag), Aluminum (Al), Calcium (Ca), Chlorine (Cl), Sodium (Na), Yttrium (Y), Ytterbium (Yb), were analyzed with scale bars of 500 nm. Gold (Au) was excluded for analysis because of the use of a gold grid. No silver was detected, and carbon was found in the background.

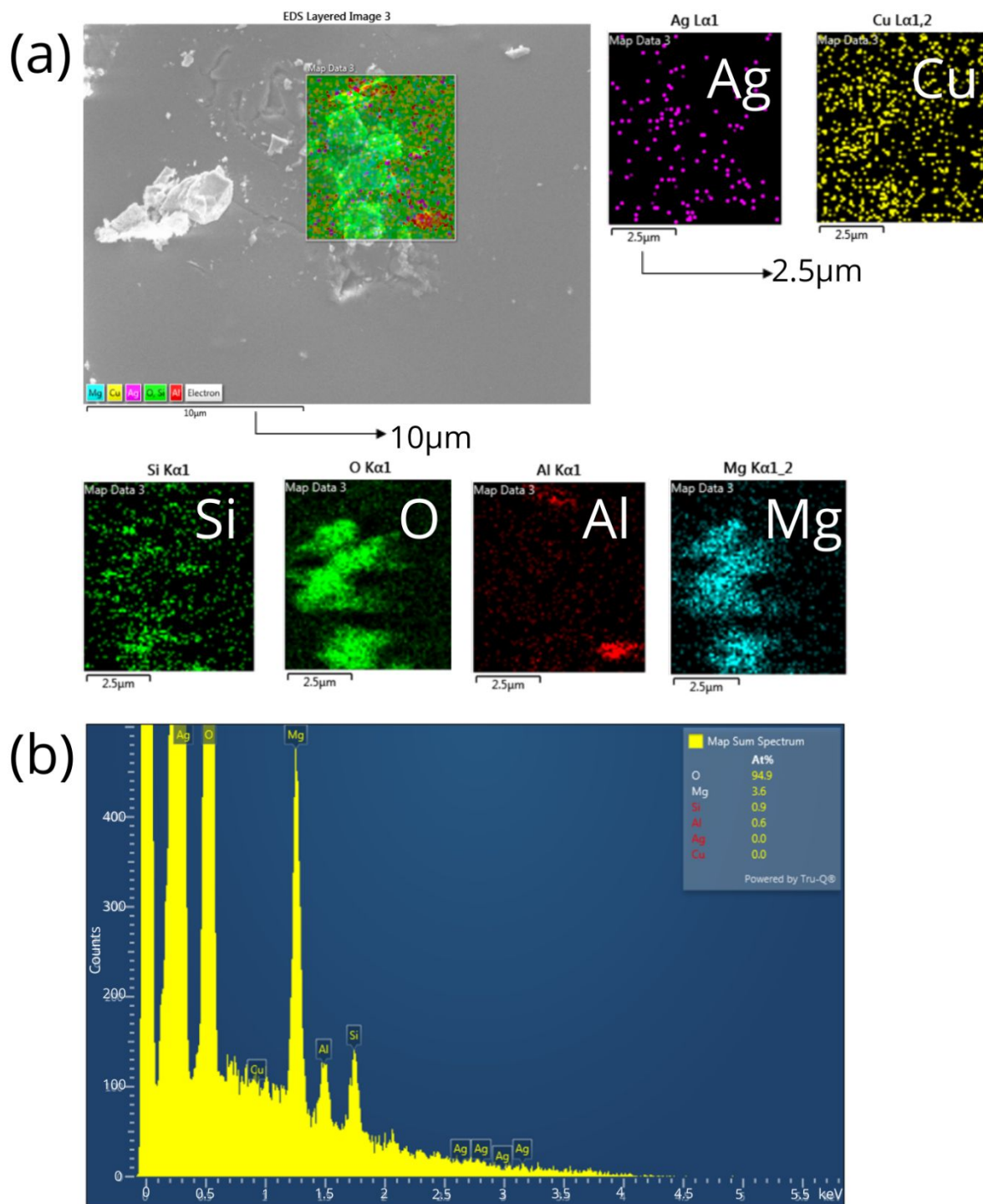


Figure S2. Microscopy analysis of thermal gravimetric analysis (TGA) ash of the Viral Guard Pro (Mask A) face mask. (a) SEM-EDS of particle used for analysis. The scale bar is 10 µm. Oxygen (O), Silica (Si), Silver (Ag), Aluminum (Al), Copper (Cu), Magnesium (Mg), were

analyzed with scale bars of 2.5 μm . (b) Elemental analysis of the particles in image (a). No silver was detected.